

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/111536 A1

(51) International Patent Classification⁷: **F23D 14/02**,
14/58

(21) International Application Number:
PCT/EP2004/006639

(22) International Filing Date: 18 June 2004 (18.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MO2003A000180 19 June 2003 (19.06.2003) IT
MO2004A000031 11 February 2004 (11.02.2004) IT

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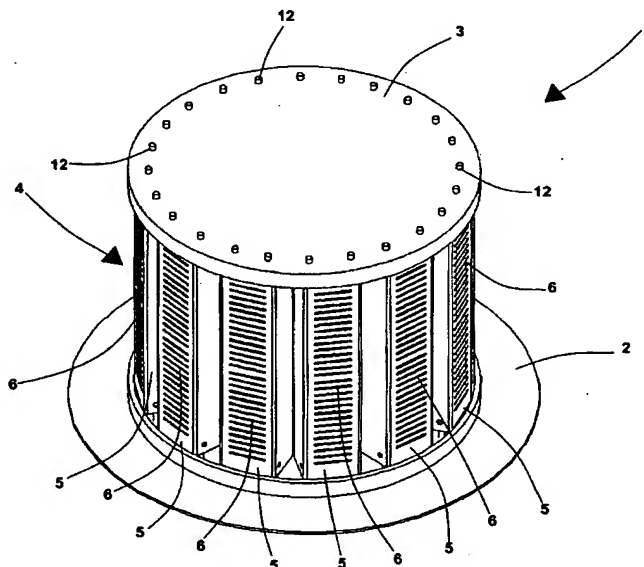
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: **BURNER WITH DIFFUSER RESISTANT TO HIGH OPERATING TEMPERATURES**



(57) Abstract: A burner (1; 1a; 20; 25; 111; 115; 118) suppliable with a mixture of air and fuel, comprising a burner body provided with a diffuser (4; 4a, 4b; 23; 113; 117; 119) in which openings are made for the passage and subsequent combustion of said mixture, said diffuser (4; 4a, 4b; 23; 113; 117; 119) is divided into a plurality of diffuser elements (5; 26; 26a; 26b; 26c; 26d; 37; 44; 46; 57; 60; 70; 75; 89; 93; 98; 106) that are adjacent to one another, each diffuser element (5; 26; 26a; 26b; 26c; 26d; 37; 44; 46; 57; 60; 70; 75; 89; 93; 98; 106) being at least partially free to dilate in at least one direction.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

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SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designation US*
- *of inventorship (Rule 4.17(iv)) for US only*

Published:

- *with international search report*

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